

N/A

1643RUSH

#7

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/296,264DATE: 07/19/1999
TIME: 09:18:50

Input Set: I296264.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

```
1 <110> APPLICANT: WRIGHT, Jim A.
2     YOUNG, Aiping H.
3     LEE, Yoon S.
4 <120> TITLE OF INVENTION: NEUROPILIN ANTISENSE OLIGONUCLEOTIDE SEQUENCES AND
5     METHODS OF USING SAME TO MODULATE CELL GROWTH
6 <130> FILE REFERENCE: 032396-043
7 <140> CURRENT APPLICATION NUMBER: US/09/296,264
8 <141> CURRENT FILING DATE: 1999-04-22
9 <150> EARLIER APPLICATION NUMBER: US 60/082,791
10 <151> EARLIER FILING DATE: 1998-04-23
11 <160> NUMBER OF SEQ ID NOS: 35
12 <170> SOFTWARE: PatentIn Ver. 2.0
13 <210> SEQ ID NO 1
14 <211> LENGTH: 20
15 <212> TYPE: DNA
16 <213> ORGANISM: Human
17 <400> SEQUENCE: 1
18     gagcggcagc cccctctcca                                20
19 <210> SEQ ID NO 2
20 <211> LENGTH: 20
21 <212> TYPE: DNA
22 <213> ORGANISM: Human
23 <400> SEQUENCE: 2
24     cgagcacggc gcagaggagc                                20
25 <210> SEQ ID NO 3
26 <211> LENGTH: 20
27 <212> TYPE: DNA
28 <213> ORGANISM: Human
29 <400> SEQUENCE: 3
30     ggacgagggc gagcacggcg                                20
31 <210> SEQ ID NO 4
32 <211> LENGTH: 20
33 <212> TYPE: DNA
34 <213> ORGANISM: Human
35 <400> SEQUENCE: 4
36     tgggtccgga gcctgaatca                                20
37 <210> SEQ ID NO 5
38 <211> LENGTH: 20
39 <212> TYPE: DNA
40 <213> ORGANISM: Human
41 <400> SEQUENCE: 5
42     tttttcaggg aatccggggg                                20
43 <210> SEQ ID NO 6
44 <211> LENGTH: 20
```

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/296,264DATE: 07/19/1999
TIME: 09:18:50

Input Set: I296264.RAW

| | | |
|----|------------------------|----|
| 45 | <212> TYPE: DNA | |
| 46 | <213> ORGANISM: Human | |
| 47 | <400> SEQUENCE: 6 | |
| 48 | gggtagttca ggcgggagcg | 20 |
| 49 | <210> SEQ ID NO 7 | |
| 50 | <211> LENGTH: 20 | |
| 51 | <212> TYPE: DNA | |
| 52 | <213> ORGANISM: Human | |
| 53 | <400> SEQUENCE: 7 | |
| 54 | aatggcgccc tgtgtcccga | 20 |
| 55 | <210> SEQ ID NO 8 | |
| 56 | <211> LENGTH: 20 | |
| 57 | <212> TYPE: DNA | |
| 58 | <213> ORGANISM: Human | |
| 59 | <400> SEQUENCE: 8 | |
| 60 | gtgcccagcc agagcgactg | 20 |
| 61 | <210> SEQ ID NO 9 | |
| 62 | <211> LENGTH: 20 | |
| 63 | <212> TYPE: DNA | |
| 64 | <213> ORGANISM: Human | |
| 65 | <400> SEQUENCE: 9 | |
| 66 | tgaggtgcgg gtggaagtgc | 20 |
| 67 | <210> SEQ ID NO 10 | |
| 68 | <211> LENGTH: 20 | |
| 69 | <212> TYPE: DNA | |
| 70 | <213> ORGANISM: Human | |
| 71 | <400> SEQUENCE: 10 | |
| 72 | gtgccgacgt gggacccaga | 20 |
| 73 | <210> SEQ ID NO 11 | |
| 74 | <211> LENGTH: 20 | |
| 75 | <212> TYPE: DNA | |
| 76 | <213> ORGANISM: Human | |
| 77 | <400> SEQUENCE: 11 | |
| 78 | gacccccagg gcactcatgg | 20 |
| 79 | <210> SEQ ID NO 12 | |
| 80 | <211> LENGTH: 20 | |
| 81 | <212> TYPE: DNA | |
| 82 | <213> ORGANISM: Human | |
| 83 | <400> SEQUENCE: 12 | |
| 84 | cgacccccaca gacagccccc | 20 |
| 85 | <210> SEQ ID NO 13 | |
| 86 | <211> LENGTH: 20 | |
| 87 | <212> TYPE: DNA | |
| 88 | <213> ORGANISM: Human | |
| 89 | <400> SEQUENCE: 13 | |
| 90 | tctctgtcct ccaaatcgaa | 20 |
| 91 | <210> SEQ ID NO 14 | |
| 92 | <211> LENGTH: 20 | |
| 93 | <212> TYPE: DNA | |
| 94 | <213> ORGANISM: Human | |

PAGE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/296,264DATE: 07/19/1999
TIME: 09:18:50

Input Set: I296264.RAW

| | | |
|-----|-----------------------|----|
| 95 | <400> SEQUENCE: 14 | |
| 96 | tgcttccac cctgaatgat | 20 |
| 97 | <210> SEQ ID NO 15 | |
| 98 | <211> LENGTH: 20 | |
| 99 | <212> TYPE: DNA | |
| 100 | <213> ORGANISM: Human | |
| 101 | <400> SEQUENCE: 15 | |
| 102 | tggaataga tgaagttgcc | 20 |
| 103 | <210> SEQ ID NO 16 | |
| 104 | <211> LENGTH: 20 | |
| 105 | <212> TYPE: DNA | |
| 106 | <213> ORGANISM: Human | |
| 107 | <400> SEQUENCE: 16 | |
| 108 | tcctctggct tctgtagcg | 20 |
| 109 | <210> SEQ ID NO 17 | |
| 110 | <211> LENGTH: 20 | |
| 111 | <212> TYPE: DNA | |
| 112 | <213> ORGANISM: Human | |
| 113 | <400> SEQUENCE: 17 | |
| 114 | aggttccctt ttccgatttc | 20 |
| 115 | <210> SEQ ID NO 18 | |
| 116 | <211> LENGTH: 20 | |
| 117 | <212> TYPE: DNA | |
| 118 | <213> ORGANISM: Human | |
| 119 | <400> SEQUENCE: 18 | |
| 120 | gtgctccctg ttcatcaat | 20 |
| 121 | <210> SEQ ID NO 19 | |
| 122 | <211> LENGTH: 20 | |
| 123 | <212> TYPE: DNA | |
| 124 | <213> ORGANISM: Human | |
| 125 | <400> SEQUENCE: 19 | |
| 126 | cattgcctgg cttcctggag | 20 |
| 127 | <210> SEQ ID NO 20 | |
| 128 | <211> LENGTH: 20 | |
| 129 | <212> TYPE: DNA | |
| 130 | <213> ORGANISM: Human | |
| 131 | <400> SEQUENCE: 20 | |
| 132 | cccagggcac tcatggctat | 20 |
| 133 | <210> SEQ ID NO 21 | |
| 134 | <211> LENGTH: 20 | |
| 135 | <212> TYPE: DNA | |
| 136 | <213> ORGANISM: Human | |
| 137 | <400> SEQUENCE: 21 | |
| 138 | gctgagaaac cttcttttgc | 20 |
| 139 | <210> SEQ ID NO 22 | |
| 140 | <211> LENGTH: 20 | |
| 141 | <212> TYPE: DNA | |
| 142 | <213> ORGANISM: Human | |
| 143 | <400> SEQUENCE: 22 | |
| 144 | aacatctgtg gggttggtgt | 20 |

PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/296,264DATE: 07/19/1999
TIME: 09:18:50

Input Set: I296264.RAW

| | | |
|-----|-----------------------|----|
| 145 | <210> SEQ ID NO 23 | |
| 146 | <211> LENGTH: 20 | |
| 147 | <212> TYPE: DNA | |
| 148 | <213> ORGANISM: Human | |
| 149 | <400> SEQUENCE: 23 | |
| 150 | tcggacaaat cgagttatca | 20 |
| 151 | <210> SEQ ID NO 24 | |
| 152 | <211> LENGTH: 20 | |
| 153 | <212> TYPE: DNA | |
| 154 | <213> ORGANISM: Human | |
| 155 | <400> SEQUENCE: 24 | |
| 156 | caacattcca gagcaaggat | 20 |
| 157 | <210> SEQ ID NO 25 | |
| 158 | <211> LENGTH: 20 | |
| 159 | <212> TYPE: DNA | |
| 160 | <213> ORGANISM: Human | |
| 161 | <400> SEQUENCE: 25 | |
| 162 | cgatcttgaa cttcctcatg | 20 |
| 163 | <210> SEQ ID NO 26 | |
| 164 | <211> LENGTH: 20 | |
| 165 | <212> TYPE: DNA | |
| 166 | <213> ORGANISM: Human | |
| 167 | <400> SEQUENCE: 26 | |
| 168 | cctgtgagct ggaagtcac | 20 |
| 169 | <210> SEQ ID NO 27 | |
| 170 | <211> LENGTH: 20 | |
| 171 | <212> TYPE: DNA | |
| 172 | <213> ORGANISM: Human | |
| 173 | <400> SEQUENCE: 27 | |
| 174 | catgtgatac cagaaggtca | 20 |
| 175 | <210> SEQ ID NO 28 | |
| 176 | <211> LENGTH: 20 | |
| 177 | <212> TYPE: DNA | |
| 178 | <213> ORGANISM: Human | |
| 179 | <400> SEQUENCE: 28 | |
| 180 | ccaacaggca cagtacagca | 20 |
| 181 | <210> SEQ ID NO 29 | |
| 182 | <211> LENGTH: 20 | |
| 183 | <212> TYPE: DNA | |
| 184 | <213> ORGANISM: Human | |
| 185 | <400> SEQUENCE: 29 | |
| 186 | accatccaca agttcaaagt | 20 |
| 187 | <210> SEQ ID NO 30 | |
| 188 | <211> LENGTH: 20 | |
| 189 | <212> TYPE: DNA | |
| 190 | <213> ORGANISM: Human | |
| 191 | <400> SEQUENCE: 30 | |
| 192 | accacagggc tcaccaggcg | 20 |
| 193 | <210> SEQ ID NO 31 | |
| 194 | <211> LENGTH: 20 | |

PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/296,264DATE: 07/19/1999
TIME: 09:18:50

Input Set: I296264.RAW

```
195 <212> TYPE: DNA
196 <213> ORGANISM: Human
197 <400> SEQUENCE: 31
198 cgctcccgcc tgaactaccc 20
199 <210> SEQ ID NO 32
200 <211> LENGTH: 20
201 <212> TYPE: DNA
202 <213> ORGANISM: Human
203 <400> SEQUENCE: 32
204 tcccaccctg aatgatgatg 20
205 <210> SEQ ID NO 33
206 <211> LENGTH: 2772
207 <212> TYPE: DNA
208 <213> ORGANISM: Human
209 <400> SEQUENCE: 33
210 atggagaggg ggctgccgct cctctgcgcc gtgctcgccc tcgtcctcgc cccggccggc 60
211 gcttttcgca acgatgaatg tggcgatact ataaaaattg aaagccccgg gtaccttaca 120
212 tctctgggtt atcctcattc ttatcaccca agtgaaaaat gcgaatggct gattcaggct 180
213 ccggaccat accagagaat tatgatcaac ttcaaccctc acttcgattt ggaggacaga 240
214 gactgcaagt atgactacgt ggaagtcttc gatggagaaa atgaaaatgg acatttttagg 300
215 ggaaagtctt gtggaaagat agcccctcct cctgttgtgt cttcagggcc atttcttttt 360
216 atcaaatttg tctctgacta cgaaacacat ggtgcaggat tttccatacg ttatgaaatt 420
217 ttcaagagag gtcttgaatg ttcccagaac tacacaacac ctagtggagt gataaagtcc 480
218 cccggattcc ctgaaaaata tcccacacgc cttgaatgca cttatattgt ctttgcccca 540
219 aagatgtcag agattatcct ggaatttgaa agctttgacc tggagcctga ctcaaattcct 600
220 ccagggggga tgttctgtcg ctacgaccgg ctagaaatct gggatggatt ccctgatgtt 660
221 ggccctcaca ttgggcgtta ctgtggacag aaaacaccag gtccaatccg atcctcatcg 720
222 ggcatctctt ccatggtttt ttacaccgac agcgcgatag caaaagaagg tttctcagca 780
223 aactacagtg tcttgacagc cagtgtctca gaagatttca aatgtatgga agctctgggc 840
224 atggaatcag gagaaattca ttctgaccag atcacagctt cttcccagta tagcaccaac 900
225 tggctctgag agcgtctccg cctgaactac cctgagaatg ggtggactcc cggagaggat 960
226 tctaccgag agtggataca ggtagacttg ggccttctgc gctttgtcac ggctgtcggg 1020
227 acacagggcg ccatttcaaa agaaaccaag aagaaatatt atgtcaagac ttacaagatc 1080
228 gacgttagct ccaacgggga agactggatc accataaaag aaggaaacaa acctgttctc 1140
229 tttcagggaa acaccaaccc cacagatgtt gtggttgacg tattccccaa accactgata 1200
230 actcgatttg tccgaatcaa gcctgcaact tgggaaactg gcatatctat gagatttgaa 1260
231 gtatacgggt gcaagataac agattatcct tgctctggaa tgttgggtat ggtgtctgga 1320
232 cttatttctg actcccagat cacatcatcc aaccaaggag acagaaactg gatgctgaa 1380
233 aacatccgcc tggtaaccag tcgctctggc tgggcacttc caccgcacc tcattcctac 1440
234 atcaatgagt ggctccaaat agacctgggg gaggagaaga tcgtgagggg catcatcatt 1500
235 caggttgagg agcaccgaga gaacaagggt ttcattgagg agttcaagat cgggtacagc 1560
236 aacaacggct cggactggaa gatgatcatg gatgacagca aacgcaaggc gaagtctttt 1620
237 gagggcaaca acaactatga tacacctgag ctgctggact ttccagctct ctccacgca 1680
238 ttcattcagg tctaccccga gagagccact catggcggac tggggctcag aatggagctg 1740
239 ctgggctgtg aagtggaagc ccctacagct ggaccgacca ctcccacagg gaacttggtg 1800
240 gatgaatgtg atgacgacca ggccaactgc cacagtggaa caggtgatga cttccagctc 1860
241 acaggtggga ccactgtgct ggccaagaaa aagcccacgg tcatagacag caccatacaa 1920
242 tcagagtctt caacatatgg ttttaactgt gaatttggct ggggctctca caagaccttc 1980
243 tgccactggg aacatgacaa tcacgtgcag ctcaagtgga gtgtgttgac cagcaagacg 2040
244 ggaccattc aggatcacac aggagatggc aacttcatct attcccaagc tgacgaaaaa 2100
```

PAGE: 6

VERIFICATION SUMMARY
PATENT APPLICATION US/09/296,264

DATE: 07/19/1999
TIME: 09:18:50

Input Set: I296264.RAW

Line ? Error/Warning

Original Text
